

**RED RIVER
GROUNDWATER
CONSERVATION
DISTRICT**

BOARD MEETING

**BOARD ROOM
GREATER TEXOMA UTILITY AUTHORITY
5100 AIRPORT DRIVE
DENISON, TEXAS 75020**

**THURSDAY
JANUARY 21, 2016**

AGENDA
RED RIVER GROUNDWATER CONSERVATION DISTRICT
BOARD OF DIRECTORS BOARD MEETING
GREATER TEXOMA UTILITY AUTHORITY BOARD ROOM
5100 AIRPORT DRIVE
DENISON, TEXAS 75020
THURSDAY, JANUARY 21, 2016

Board Meeting/Workshop

The Board Meeting will begin at 2:00 p.m.

The Board of Directors may discuss, consider, and take all necessary action, including expenditure of funds, regarding each of the agenda items below:

Agenda:

1. Call to order, declare meeting open to the public, and take roll
2. Public Comment
3. Consider and act upon approval of Minutes of November 20, 2015, Board Meeting
4. Review and approval of monthly invoices
5. Receive monthly financial information
6. Receive Quarterly Investment Report
7. Receive Quarterly Report
8. Update and possible action regarding the process for the development of Desired Future Conditions (DFCs)
9. Consider and act upon compliance and enforcement activities for violations of District Rules
10. General Manager's report: The General Manager will update the Board on operational, educational and other activities of the District
11. Open forum / discussion of new business for future meeting agendas
12. Adjourn

¹The Board may vote and/or act upon each of the items listed in this agenda.

²At any time during the meeting or work session and in compliance with the Texas Open Meetings Act, Chapter 551, Government Code, Vernon's Texas Codes, Annotated, the Red River Groundwater

Conservation District Board may meet in executive session on any of the above agenda items or other lawful items for consultation concerning attorney-client matters (§551.071); deliberation regarding real property (§551.072); deliberation regarding prospective gifts (§551.073); personnel matters (§551.074); and deliberation regarding security devices (§551.076). Any subject discussed in executive session may be subject to action during an open meeting.

³ *Persons with disabilities who plan to attend this meeting, and who may need assistance, are requested to contact Velma Starks at (800) 256-0935 two (2) working days prior to the meeting, so that appropriate arrangements can be made.*

⁴ *For questions regarding this notice, please contact Velma Starks at (800) 256-0935, at rrqcd@redriverqcd.org or at 5100 Airport Drive, Denison, TX 75020.*

ATTACHMENT 3

**MINUTES OF THE BOARD MEETING
RED RIVER GROUNDWATER CONSERVATION DISTRICT**

FRIDAY, NOVEMBER 20, 2015

**AT THE GREATER TEXOMA UTILITY AUTHORITY
BOARD ROOM
5100 AIRPORT DRIVE
DENISON, TX 75020**

Members Present: David Gattis, Mark Gibson, Harold Latham, Mark Newhouse,
Members Absent: Mark Patterson, William Purcell, Don Wortham
Staff: Drew Satterwhite, P.E., Velma Starks, Carolyn Bennett
Visitors: James Beach, LBG Guyton Associates
Kristen Fancher, Smith/Robertson
Larry Lawrence, FCWSA, Fannin County
Mike Hartley, Arledge Ridge Water, Bailey, Texas
Rick Sheldy
John Keen, Southwest Fannin SUD, Savoy, Texas
Doug Kopf, Fannin County Water Supply, Windom, Texas

1. Call to order, declare meeting open to the public, and take roll.

Vice President Latham declared a quorum was present and called the meeting to order at 10:04am. The Board Members and staff introduced themselves.

2. Public Comment.

There were no citizens present requesting to be heard before the Board.

3. Present Mark Gibson, newly re-appointed Director to the Board for re-instatement according to the Bylaws, to be sworn in and to take the Oath of Office

Vice President Latham stated Mark Gibson was presented as a newly reappointed Director on the Board of Directors of the Red River Groundwater Conservation District, representing the City of Sherman.

4. Administer Oath of Office for Mark Gibson

Velma Starks administered the Oath of Office to Mark Gibson.

5. Consider and act upon approval of Minutes of October 22, 2015 Board Meeting

Board Member Gattis made a motion to approve the Minutes of the October 22, 2015 board meeting. Board Member Mark Newhouse seconded the motion. Motion passed unanimously.

6. Review and approval of monthly invoices.

The Board reviewed the monthly invoices presented. Board Member Gattis made a motion to approve payment of the monthly invoices. Board Member Newhouse seconded the motion. Motion passed unanimously.

7. Receive Monthly Financial Information

General Manager Satterwhite reviewed the monthly financial information with the Board.

8. Consider and act upon approval of Investment Policy

General Manager Satterwhite discussed the Investment Policy and the Public Funds Investment Act requirements for the District to develop and maintain the Investment Policy. Review of the policy is required annually.

Board Member Newhouse made a motion to approve the Investment Policy. Board Member Gattis seconded the motion. Motion passed unanimously.

9. Consider and act upon 2016 Administrative Services Contract with Greater Texoma Utility Authority

Mr. Satterwhite reviewed with the Board the contract for provision of administrative services by the Greater Texoma Utility Authority staff for the Red River Groundwater Conservation District. The Authority staff has provided services under contract since 2010. Board Member Gattis made a motion to approve the 2016 administrative services contract with Greater Texoma Utility Authority. Board Member Gibson seconded the motion. Motion passed unanimously.

10. Review and Evaluate District Rules Regarding Waste of Groundwater

The District's Management Plan contains a requirement for the District Rules to be reviewed annually for any reductions that may be made to reduce waste of groundwater. There were no changes requested by the Board of Directors at this time to the Rules regarding waste of water.

11. Annual Review of Texas State Soil & Water Conservation Board State Water Supply Enhancement Plan dated July 2014

Another requirement of the District's Management Plan is review of the State Water Supply Enhancement Plan. Carolyn Bennett reviewed the Plan with the Board. There are currently no study areas within the Red River Groundwater District for water supply enhancement activities.

12. Receive update and possible action on GMA-8 activities and development of Desired Future Conditions

General Manager Satterwhite provided the Board with an overview of the GMA-8 meeting and discussions during the meeting held November 18th regarding development of the Desired Future Conditions ("DFC"). Mr. Satterwhite stated that staff recommended the Board authorize the DFC Committee to work with consultants and legal counsel to develop the District's proposed DFC. Discussion ensued regarding the responsibilities groundwater districts have in setting the DFC for their respective districts, the approaches being

considered in developing the DFC, the development of an additional Groundwater Availability Monitoring run for the Red River Groundwater District to assist Board Members in setting the DFC to be considered by the GMA-8 group at the January 22 meeting – with other districts invited to participate in the run, and the use of surface water to offset groundwater use. Areas with surface water availability are very fortunate to have that resource to help alleviate depletion of groundwater resources. How to inform and educate the public was discussed.

Motion was made by Board Member Gattis to authorize the DFC Committee to develop and authorize model run inputs for a potential proposed Desired Future Conditions Statement with assistance of consultants and general counsel to present to the GMA-8 at the January 22 GMA-8 meeting. Board Member Newhouse seconded the motion. Motion passed unanimously.

13. Consider and act upon compliance and enforcement activities for violations of District rules

There were no violations currently needing consideration of the Board of Directors.

14. General Manager’s Report: The General Manager will update the Board on operational, educational and other activities of the District

Mr. Satterwhite reported 20 new wells were registered in October. As of October 586 wells are registered within the District.

15. Receive Visioning presentation from LBG Guyton Associates

Vice President Latham stated the Red River GCD is not recording presentation – a public person is recording the presentation, and the District will not have a copy of the recording.

James Beach provided the group with a presentation regarding data that needs consideration in developing the DFC for the District. Pumping compared to metered documentation, strategies in the 2012 State Water Plan, water demand, water level changes, drawdown, aquifer conditions and other relevant data all need consideration in relation to the DFC for the District.

16. Open forum / discussion of new business for future meeting agendas

Vice President Latham asked for future agenda items from the Board. It was the consensus of the Board that a meeting would not be necessary in December or January, the next meeting was tentatively scheduled for February 4th at 2:00pm

17. Adjourn

Board Member Gattis made a motion to adjourn. Board Member Newhouse seconded the motion. Motion passed unanimously. The Board adjourned at 12:55pm

#####

Recording Secretary

Secretary-Treasurer

ATTACHMENT 6

Red River Groundwater Conservation District
Investment Report
December 31, 2015

This report complies with the requirements of the Public Funds Investment Act and covers all the funds of the District that are subject to the Act. At December 31, 2015, the investment position was a little more than \$379 thousand.

The District's funds are consistent with the prior periods.

The District was in compliance with all provisions on the investment policy and the Public Funds Investment Act as of December 31, 2015.

All transactions were routine.

The following schedules are also a part of this investment report.

Debi Atkins
Finance Officer

Red River Groundwater Conservation District
Investment Portfolio

Type of Instrument	MATURITY DATE	COUPON RATE	PAR VALUE	BOOK VALUE	MARKET VALUE 12/31/2015
Cert of Deposit	10/28/2016	0.650%	100,000.00	100,000.00	99,824.40 Safra National Bank
Cert of Deposit	2/24/2016	1.000%	100,000.00	100,000.00	100,000.00 First United
Checking account	@ 12/31/15				179,315.83
Total Portfolio as of December 31, 2015					\$ 379,140.23

INVESTMENT SUMMARY AS OF

12/31/2015

Investment	Maturity Date	Rate	Par Value	Market Value	Accrued Interest	Mkt + Accr Int Value	Years to Maturity
C.D. Safra National Bæ	10/28/2016	0.65%	100,000	99,824	\$117	\$99,942	0.8274
C.D. First United	2/24/2016	1.00%	100,000	100,000	\$19	\$100,019	0.1507
TOTAL			\$200,000	\$199,824	\$137	\$199,961	
Weighted Ave Maturity in yrs	0.49						

ATTACHMENT 7



RED RIVER
GROUNDWATER CONSERVATION DISTRICT
FANNIN COUNTY AND GRAYSON COUNTY



General Manager's Quarterly Report
December 31, 2015

Management Plan
Assessment of the Status of Drought in the District

The following is a quarterly report on the existing drought conditions:

As of December 2015 the Texas Water Development Board website reflected no drought in the North Central Texas Area, with stream flow near or above normal.

Attached are the drought maps for October, November, and December 2015. Rainfall maps are also attached to this report for this time period for your information and use.

The NOAA website reflects the following rainfall data in Fannin and Grayson Counties during this quarter:

Location	October 2015	November 2015	December 2015
Bonham, Fannin County	6.73"	16.63"	7.72"
Sherman, Grayson County	9.85"	9.37"	6.71"

The Texas Water Development Board website reflects Lake Bonham was at 100% of its conservation storage capacity in November 2015, and Lake Texoma at 100%.

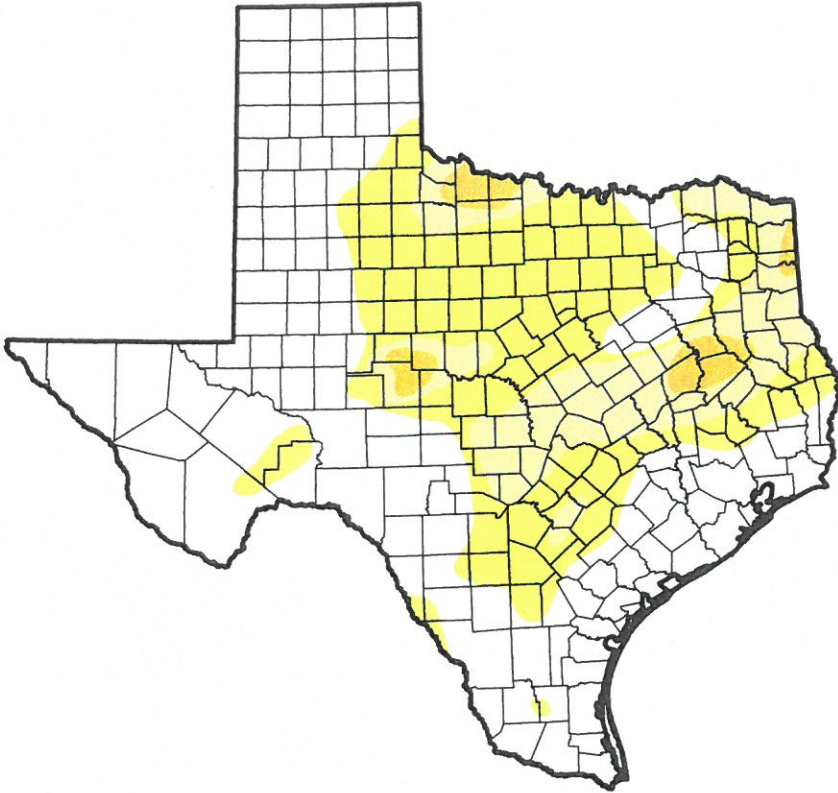
The Climate Prediction Center (NOAA) reflects there is greater than a 90% chance that El Nino will continue through the winter, with a around an 80% chance it will last through early Spring 2016, with a transition to ENSO-neutral (periods when neither El Nino nor La Nina are present) anticipated during late spring/early summer 2016.

PO Box 1214
Sherman, TX 75090
(800) 256-0935 fax: (903) 786-8211

http://www.gtua.org/red_river_gcd.asp

U.S. Drought Monitor Texas

October 27, 2015
(Released Thursday, Oct. 29, 2015)
Valid 8 a.m. EDT



Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	56.34	43.66	15.67	2.85	0.00	0.00
Last Week <i>10/20/2015</i>	34.75	65.25	50.28	41.88	21.40	5.52
3 Months Ago <i>7/28/2015</i>	86.45	13.55	0.65	0.00	0.00	0.00
Start of Calendar Year <i>12/30/2014</i>	34.37	65.63	44.68	25.73	11.70	3.17
Start of Water Year <i>9/29/2015</i>	34.51	65.49	38.32	17.55	6.27	0.00
One Year Ago <i>10/28/2014</i>	24.84	75.16	49.20	27.86	11.90	3.62

Intensity:

- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

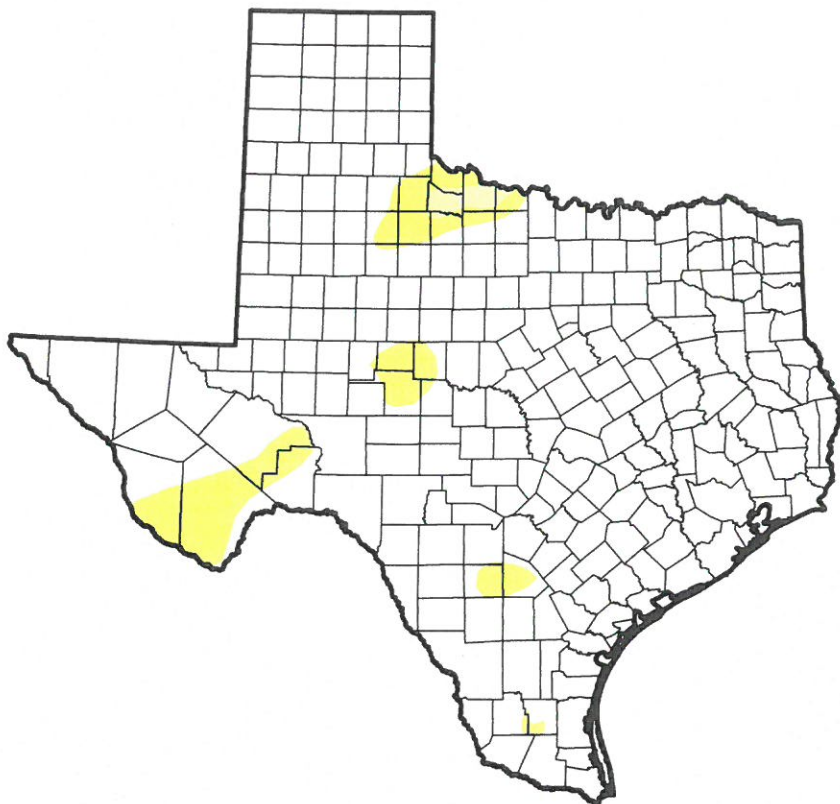
Author:
Brad Rippey
U.S. Department of Agriculture



<http://droughtmonitor.unl.edu/>

U.S. Drought Monitor Texas

November 24, 2015
(Released Wednesday, Nov. 25, 2015)
Valid 7 a.m. EST



Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	92.65	7.35	0.61	0.00	0.00	0.00
Last Week <i>11/17/2015</i>	90.41	9.59	0.61	0.00	0.00	0.00
3 Months Ago <i>8/25/2015</i>	59.34	40.66	23.52	6.37	0.00	0.00
Start of Calendar Year <i>12/30/2014</i>	34.37	65.63	44.68	25.73	11.70	3.17
Start of Water Year <i>9/29/2015</i>	34.51	65.49	38.32	17.55	6.27	0.00
One Year Ago <i>11/25/2014</i>	34.11	65.89	42.56	22.05	9.50	2.57

Intensity:

- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

Author:
Richard Heim
NCEI/NOAA



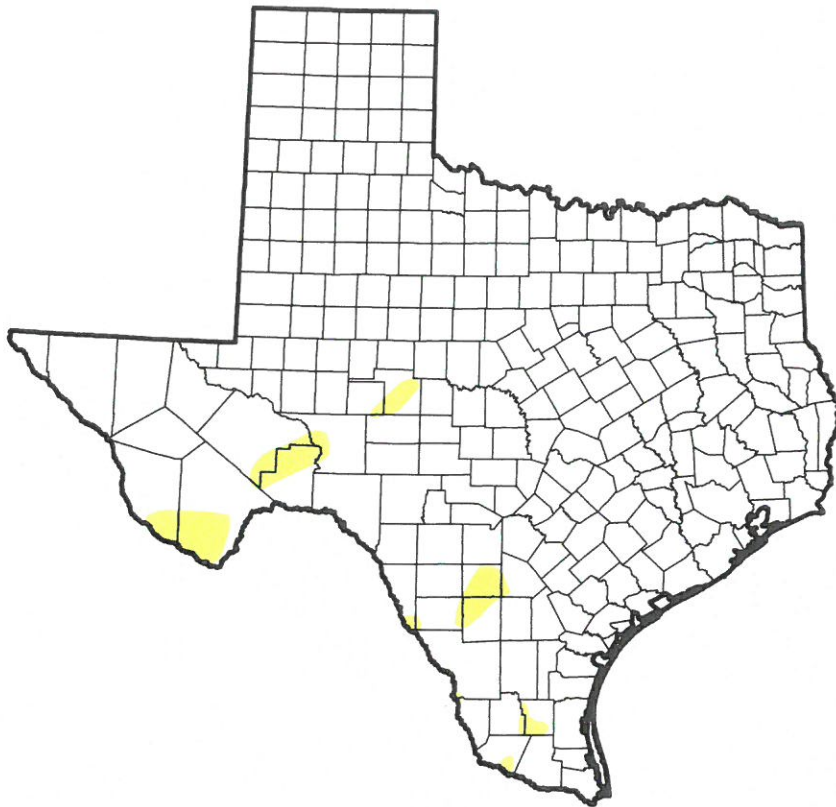
<http://droughtmonitor.unl.edu/>

U.S. Drought Monitor Texas

December 15, 2015
(Released Thursday, Dec. 17, 2015)
Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	96.82	3.18	0.00	0.00	0.00	0.00
Last Week <i>12/8/2015</i>	97.17	2.83	0.00	0.00	0.00	0.00
3 Months Ago <i>9/15/2015</i>	48.77	51.23	26.71	10.46	3.92	0.00
Start of Calendar Year <i>12/30/2014</i>	34.37	65.63	44.68	25.73	11.70	3.17
Start of Water Year <i>9/29/2015</i>	34.51	65.49	38.32	17.55	6.27	0.00
One Year Ago <i>12/16/2014</i>	33.17	66.83	43.91	23.41	10.05	2.57



Intensity:

- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

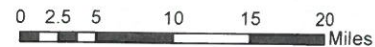
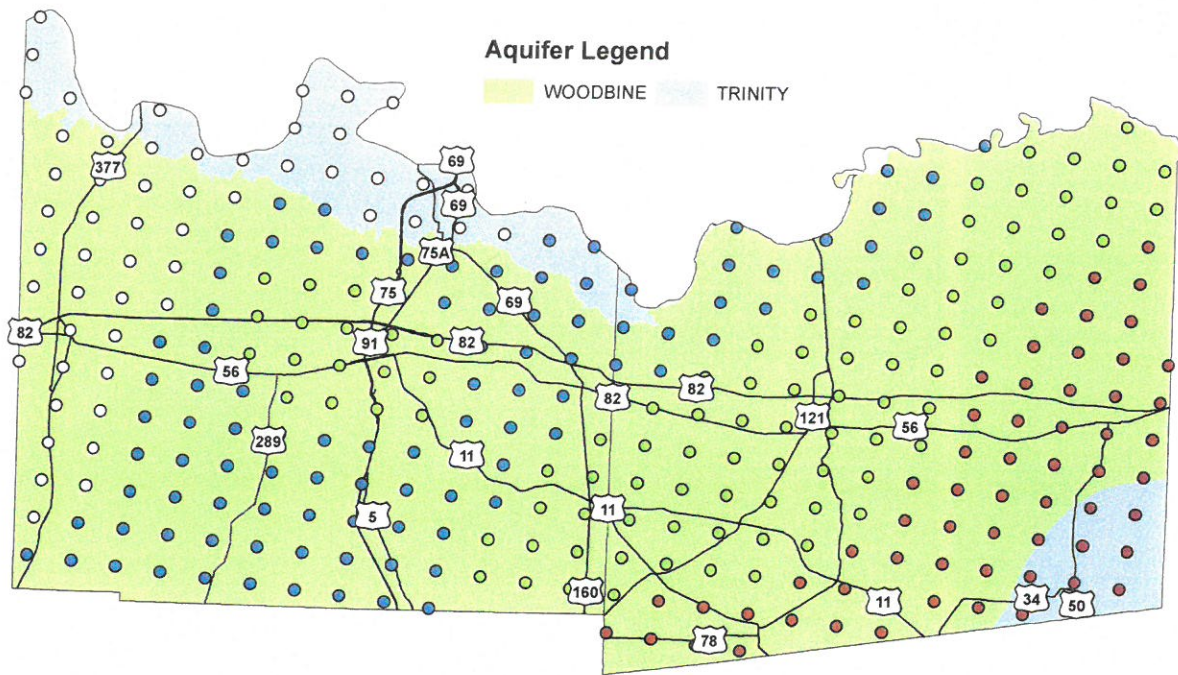
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

Author:
Richard Tinker
CPC/NOAA/NWS/NCEP



<http://droughtmonitor.unl.edu/>

Rainfall Totals for October 2015



Red River Groundwater Conservation District
 PO Box 1214
 Sherman, TX 75091-1214
 (800) 256-0935

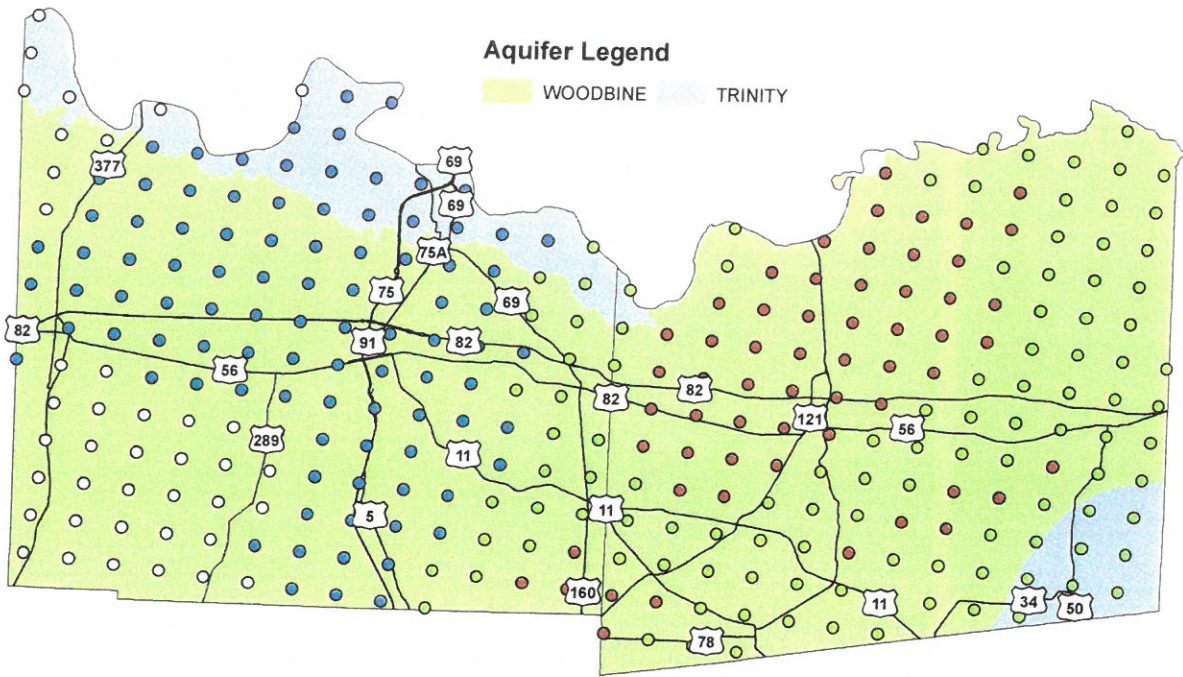


Data Source:
 National Weather Service
 Precipitation Analysis

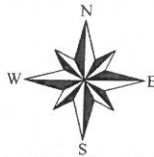
Rainfall in Inches

- 4.14 - 4.38
- 4.39 - 4.56
- 4.57 - 4.71
- 4.72 - 4.90

Rainfall Totals for November 2015



Red River Groundwater Conservation District
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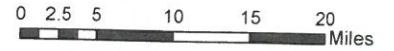
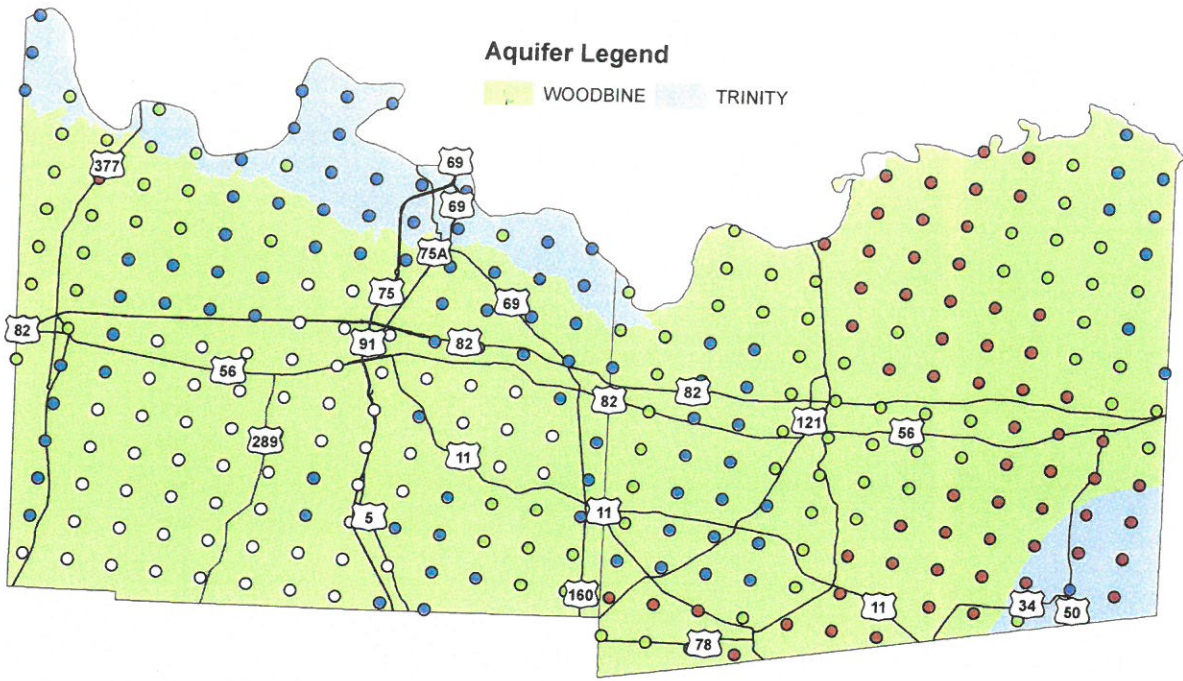


Data Source:
 National Weather Service
 Precipitation Analysis

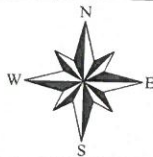
Rainfall in Inches

- | | | | |
|---|---------------|---|---------------|
| ○ | 7.46 - 10.41 | ● | 12.17 - 13.96 |
| ● | 10.42 - 12.16 | ● | 13.97 - 16.13 |

Rainfall Totals for December 2015



Red River Groundwater Conservation District
 PO Box 1214
 Sherman, TX 75091-1214
 (800) 256-0935



Data Source:
 National Weather Service
 Precipitation Analysis

Rainfall in Inches

- | | | | |
|---|-------------|---|-------------|
| ○ | 5.02 - 6.25 | ● | 7.13 - 7.99 |
| ● | 6.26 - 7.12 | ● | 8.00 - 9.77 |

ATTACHMENT 8



RED RIVER GROUNDWATER CONSERVATION DISTRICT AGENDA COMMUNICATION



DATE: January 18, 2016

SUBJECT: AGENDA ITEM NO. 8

UPDATE AND POSSIBLE ACTION REGARDING THE PROCESS FOR THE DEVELOPMENT OF DESIRED FUTURE CONDITIONS (DFCs)

ISSUE

The Desired Future Conditions ("DFC") Committee has authorized an additional model run. This model run has the potential to be voted in for consideration by the Groundwater Management Area ("GMA") 8 as a proposed DFC. The committee would like the Board's concurrence on the approach prior to voting this run in for consideration.

BACKGROUND

On December 4th, the DFC Committee met to discuss inputs for a new model run that has a strong potential of being voted in for consideration at the upcoming GMA-8 meeting. The committee had the benefit of reviewing all of the Hydrogeology data that we have collected over the past several years. The committee paid special attention to the information presented to the RRGCD BOD at the October and November 2015 meetings along with the "Impact to Existing Well Maps" put together by LBG Guyton.

Below, is a summary of what was discussed when considering inputs for the model run. It is important to note that the multiplication factors discussed are based off of GAM Run 5 (2010 baseline that was used for the model) as opposed to actual meter data. The actual multiplier of the Run 5 pumping numbers incorporating our meter data would be 1.3. Also, the references to District's meter data are the last 4 years of data that have been collected.

Fannin County

We anticipate that Fannin County will continue to grow off of groundwater in the near term, but in the future will have access to treated surface water with two reservoirs and a large water treatment plant currently in the planning phase to be built in the county. The largest city, Bonham, currently has water rights in Lake Bonham and is supplied surface water as a customer of NTMWD. The pumping is as follows:

- **Woodbine - 1.0x – 4,924 acre-feet** - This would set the pumping at 565 acre-feet over current average.
- **Antlers – 6.0x – 2,088 acre-feet** – This would set the pumping at 1,198 acre-feet above the average, but would provide the District with another source to allocate pumping. We expect Fannin County to need some groundwater to grow on and this would allocate most pumping to a deeper layer that would help preserve the more shallow water for the private landowner who may not be able to afford to drill deeper.

Grayson County

- Grayson County is fortunate to have significant surface water sources in the county, Lake Texoma and Lake Randell. It is anticipated that most of the growth in the county can readily be supplied with surface water due to the significant amount of water rights in the county along with existing treatment infrastructure. Currently, the two largest Cities, Denison and Sherman, have water treatment plants and surface water rights. Also, the City of Howe and Van Alstyne already have access to treated water through a contract that is supplied by GTUA/NTMWD. The pumping is as follows:

- **Woodbine - 1.45x – 7,526 acre-feet** – This would set the pumping at approximately 525 acre feet above the existing pumping average.
- **Antlers – 1.45x– 10,716 acre-feet** – This would set the pumping approximately 2,029 acre-feet above the District’s average usage, but would provide the present day rural water providers with a source of water until a surface water source can be reasonably obtained. Just like with Fannin County, the logic here is to allocate most growth to a deeper source so that a private well owner is able to afford drilling a well.

CONSIDERATIONS

Voting a DFC in for consideration at the GMA-8 level does not set the DFC. Each District and the GMA-8 will then be tasked with further evaluating all nine (9) considerations as set forth by the legislature. Given the time frame we are working with to meet the May 1, 2016 deadline, it is possible that it may be difficult for one (1) District to modify the approach after a DFC is being formally considered by the GMA-8.

It would be beneficial for the Board to come to an agreement on a proposed DFC at this meeting. This would help ensure that at least one DFC is on the table for the GMA-8.

STAFF RECOMMENDATIONS

The staff recommends authorizing Mr. David Gattis, the District’s GMA-8 Representative, to vote proposed DFCs into consideration at future GMA-8 meetings. The DFC will follow the logic discussed in this memo with any comments received from the Board at the January 21st meeting. If another GMA-8 DFC that has a significant impact to the RRGCD is proposed for consideration, we would propose to allow the DFC Committee to authorize a GMA-8 vote. The final DFC will be brought back to the Board of Directors before a vote.

The staff also recommends authorizing the DFC Committee to submit a DFC statement to the GMA-8. The statement would be drafted using the same logic and information discussed in this memo.

Attachments

Model Input Summary

PREPARED AND SUBMITTED BY:



Drew Satterwhite, P.E., General Manager

**Red River GCD DFC Assessment
GMA-8 Run 10 Evaluation**

County/ Aquifer	Current MAG (af/yr)	2010 Pumping Estimate used in Run 5 (af/yr)	Peak Meter Use (af/yr)	Average Meter Use (2013-2014) (af/yr)	Exempt Use (af/yr)	Peak Total Use (af/yr)	Average Total Use (2013-2014) (af/yr)	Proposed Multiplier for 2010 pumping	County/Aquifer pumping for Run 10 (af/yr)	Increase from Average Total Use (af/yr)	% Increase from Average Total Use
FANNIN											
Woodbine	3,297	4,924	2,329	2,293	2,066	4,395	4,359	1.0	4,924	565	13%
Antlers	700	348	133	96	84	217	180	6.0	2,088	1,908	1060%
Fannin Total	3,997	5,272	2,462	2,389	2,150	4,612	4,539		7,012	2,473	54%
GRAYSON											
Woodbine	12,087	5,190	5,834	5,467	1,534	7,368	7,001	1.45	7,526	525	7%
Antlers	9,400	7,390	7,913	7,442	1,245	9,158	8,687	1.45	10,716	2,029	23%
Grayson Total	21,487	12,580	13,747	12,909	2,779	16,526	15,688		18,241	2,553	16%
RRGCD Total	25,484	17,852	16,209	15,298	4,929	21,138	20,227		25,253	5,026	25%

ATTACHMENT 10

Red River Groundwater Conservation District

Well Registration Summary As of November 30, 2015

Well Type	Total Registered Fannin County	Total Registered Grayson County	November 2015	New Registrations
Domestic	90	140	230	0
Agriculture	11	25	36	0
Oil/Gas	0	18	18	0
Surface Impoundments	4	11	15	0
Commercial	4	3	7	0
Golf Course	0	15	15	0
Livestock	12	16	28	0
Irrigation	0	4	4	0
Public Water	54	208	262	0
Total	175	440	615	0

Red River Groundwater Conservation District

Well Registration Summary As of December 31, 2015

Well Type	Total Registered Fannin County	Total Registered Grayson County	December 2015	New Registrations
Domestic	91	145	236	0
Agriculture	11	25	36	0
Oil/Gas	0	18	18	0
Surface Impoundments	4	11	15	0
Commercial	4	3	7	0
Golf Course	0	15	15	0
Livestock	12	17	29	0
Irrigation	0	4	4	0
Public Water	54	208	262	0
Total	176	446	622	0

ADJOURN